



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

CRYOPUMP TEMPERATURE CONTROL OF ARRAYS

the specification of which (check one)

- [] is attached hereto.
- [X] was filed on **December 31, 2003** as United States Application Number **10/750,547**.
- [] was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.]
- [] and was amended on [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>	<u>Priority Not Claimed</u>	<u>Certified Copy Filed?</u>
YES	NO	
(Number)	(Country)	(Day/Month/Year filed)
[]	[]	[]
(Number)	(Country)	(Day/Month/Year filed)
[]	[]	[]
(Number)	(Country)	(Day/Month/Year filed)
[]	[]	[]

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole
or first inventor Peter W Gaudet
Inventor's Signature  Date 4-27-04
Residence 12 Kenneth Street
West Roxbury, Massachusetts 02132
Citizenship USA
Mailing Address Same as above

Full name of second joint inventor, if any Donald A. Olsen (deceased)
Legal Representative Carol Olsen
Legal Representative's Signature for Inventor _____ Date _____
Residence of Representative 5 Bogastow Circle
Millis, Massachusetts 02054
Citizenship USA
Mailing Address Same as above

Full name of third joint
inventor, if any Michael J. Eacobacci
Inventor's Signature Michael J. Eacobacci Date 4-27-04
Residence _____ 58 Old Stagecoach Road

S. Attleboro, Massachusetts 02703
Citizenship _____ USA
Mailing Address _____ Same as above

Full name of fourth joint inventor, if any John T. Harvell (deceased)
Legal Representative Olive Harvell
Legal Representative's Signature for Inventor _____ Date _____
Residence of Representative 11 Murray Drive

Sudbury, Massachusetts 01776
Citizenship US Citizen
Mailing Address Same as above

DOCKET NO. 0100.1361-027

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

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(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[] [] []
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[] [] []
(Number) _____	(Country) _____	(Day/Month/Year filed) _____	[] [] []

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Full name of sole

or first inventor Peter W. Gaudet

Inventor's Signature _____ Date _____

Residence 12 Kenneth Street
West Roxbury, Massachusetts 02132

Citizenship USA

Mailing Address Same as above

Full name of second joint

inventor, if any Donald A. Olsen (deceased)

Legal Representative Carol Olsen

Legal Representative's Signature for Inventor Carol Olsen Date 4-6-04

Residence of Representative 5 Bogastow Circle
Millis, Massachusetts 02054

Citizenship USA

Mailing Address Same as above

Full name of third joint

inventor, if any Michael J. Eacobacci

Inventor's Signature _____ Date _____

Residence 58 Old Stagecoach Road
S. Attleboro, Massachusetts 02703

Citizenship USA

Mailing Address Same as above

Full name of fourth joint

inventor, if any John T. Harvell (deceased)

Legal Representative Olive Harvell

Legal Representative's Signature for Inventor _____ Date _____

Residence of Representative 11 Murray Drive
Sudbury, Massachusetts 01776

Citizenship US Citizen

Mailing Address Same as above



DOCKET NO. 0100.1361-027

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(Number)	(Country)	(Day/Month/Year filed)	[] [] []

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Full name of sole

or first inventor Peter W. Gaudet

Inventor's Signature _____ Date _____

Residence 12 Kenneth Street

West Roxbury, Massachusetts 02132

Citizenship USA

Mailing Address Same as above

Full name of second joint

inventor, if any Donald A. Olsen (deceased)

Legal Representative Carol Olsen

Legal Representative's Signature for Inventor _____ Date _____

Residence of Representative 5 Bogastow Circle

Millis, Massachusetts 02054

Citizenship USA

Mailing Address Same as above

Full name of third joint

inventor, if any Michael J. Eacobacci

Inventor's Signature _____ Date _____

Residence 58 Old Stagecoach Road

S. Attleboro, Massachusetts 02703

Citizenship USA

Mailing Address Same as above

Full name of fourth joint

inventor, if any John T. Harvell (deceased)

Legal Representative Olive Harvell

Legal Representative's Signature for Inventor Olive Harvell Date 4-8-2004

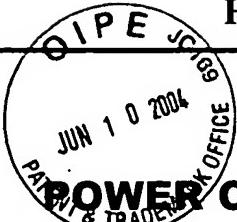
Residence of Representative 11 Murray Drive

Sudbury, Massachusetts 01776

Citizenship US Citizen

Mailing Address Same as above

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.



**POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT AND
CORRESPONDENCE ADDRESS**

<i>Application Number</i>	10/750,547
<i>Filing Date</i>	December 31, 2003
<i>First Named Inventor</i>	Peter W. Gaudet
<i>Confirmation Number</i>	
<i>Group Art Unit</i>	
<i>Examiner Name</i>	Not yet assigned
<i>Attorney Docket Number</i>	0100.1361-027

<i>Title</i>	CRYOPUMP TEMPERATURE CONTROL OF ARRAYS
--------------	--

I/We hereby appoint

[X] the attorneys/agents associated with Customer No. 021005

[] Practitioner(s) named below:

as my/our attorneys/agents to prosecute the application identified above, including any continuation or divisional applications thereof, and to transact all business in the United States Patent and Trademark Office connected therewith.

The correspondence address for the above-identified application is:

[X] Customer Number 021005

Hamilton, Brook, Smith & Reynolds, P.C.

530 Virginia Road

P.O. Box 9133

Concord, Massachusetts 01742-9133

[] Other _____

Please direct all telephone calls and facsimiles to:

Name James M. Smith, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136

I am the:

[] Applicant/Inventor.

[X] Authorized representative of the Assignee, Helix Technology Corporation, of the entire interest. See 37 C.F.R. § 3.71. A Statement under 37 C.F.R. § 3.73(b) is enclosed.

[] Authorized representative of the Assignee, [], together with [], of the entire interest. A Statement under 37 C.F.R. § 3.73(b) is enclosed.

SIGNATURE of Applicant or Assignee of Record

Name & Title	Charles G. Chappell, Assistant Secretary
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Signature	
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Date	MAY 3, 2004
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Docket No.: 0100.1361-027

STATEMENT UNDER 37 C.F.R. § 3.73(b)

Inventors: Peter W. Gaudet, Donald A. Olsen (deceased), Michael J. Eacobacci and John T. Harvell (deceased)

Application No.: 10/750,547 Filed/ Date: December 31, 2003

For: CRYOPUMP TEMPERATURE CONTROL OF ARRAYS

Helix Technology Corporation, a corporation,
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

- A. the assignee of the entire right, title and interest in the patent application identified above; or
- B. an assignee together with [] of the entire right, title and interest in the patent application identified above.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

- A. An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or a copy thereof is attached.

OR

- B. A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: MAY 3, 2004

Name: Charles G. Chappell

Title: Assistant Secretary

Signature:

ASSIGNMENT

COPY Joint

WHEREAS, we, **Peter W. Gaudet, Donald A. Olsen (deceased), Michael J. Eacobacci and John T. Harvell (deceased)**, have invented a certain improvement in **CRYOPUMP TEMPERATURE CONTROL OF ARRAYS** described in an application for Patent,

- [] the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- [] is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. **10/750,547**, filed **December 31, 2003**;
- [] the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
- [] which was patented under United States Patent No. [].

WHEREAS, **Helix Technology Corporation** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at **Mansfield Corporate Center, Nine Hampshire Street, Mansfield, Massachusetts 02048-9171** desires to acquire an interest therein in accordance with agreements duly entered into with us;

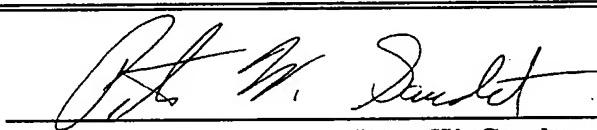
NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature:



Peter W. Gaudet

State/Commonwealth

of Massachusetts

County of Bristol

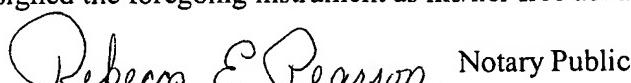
On this 27th day of April, 2004, before me, the undersigned notary public, personally, appeared Peter W. Gaudet,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Rebecca E Pearson Notary Public

Rebecca E Pearson (print name)

My Commission expires 01/16/09

Legal Representative of Inventor Donald A. Olsen (deceased)

Signature: _____

Carol Olsen

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20_____, before me, the undersigned notary public, personally appeared Carol Olsen,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____

Notary Public

(print name) _____

My Commission expires / /

Inventor's Signature: _____

Michael J. Eacobacci

Michael J. Eacobacci

State/Commonwealth

of Massachusetts

County of Bristol

On this 27th day of April, 2004, before me, the undersigned notary public, personally appeared Michael J. Eacobacci,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____

Rebecca E Pearson

Notary Public

Rebecca E. Pearson

(print name) _____

My Commission expires 01/16/09

Legal Representative of Inventor John T. Harvell (deceased)

Signature: _____

Olive Harvell

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20_____, before me, the undersigned notary public, personally appeared **Olive Harvell**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____

Notary Public

(print name) _____

My Commission expires _____ / _____ / _____

COPY Joint

ASSIGNMENT

WHEREAS, we, Peter W. Gaudet, Donald A. Olsen (deceased), Michael J. Eacobacci and John T. Harvell (deceased), have invented a certain improvement in **CRYOPUMP TEMPERATURE CONTROL OF ARRAYS** described in an application for Patent,

- [] the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- [] is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. 10/750,547, filed December 31, 2003;
- [] the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
- [] which was patented under United States Patent No. [].

WHEREAS, **Helix Technology Corporation** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **Mansfield Corporate Center, Nine Hampshire Street, Mansfield, Massachusetts 02048-9171** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

Peter W. Gaudet

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Peter W. Gaudet** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20 _____. _____

(SEAL)

Notary Public

(print name)

My Commission expires ____ / ____ / ____

Legal Representative of Inventor Donald A. Olsen (deceased)

Signature:

Carol Olsen

Carol Olsen

State/Commonwealth

of Massachusetts

County of Norfolk

Then personally appeared before me the above-named **Carol Olsen** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 6th day of April, 2004.

(SEAL)



Notary Public

Brian Bolton

(print name)

My Commission expires 07 / 30 / 2010

Inventor's Signature:

Michael J. Eacobacci

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Michael J. Eacobacci** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20 _____.

(SEAL)

Notary Public

(print name)

My Commission expires / /

Legal Representative of Inventor John T. Harvell (deceased)

Signature: _____

Olive Harvell

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Olive Harvell** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20 _____.

(SEAL) _____

Notary Public

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AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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Inventor's Signature: _____

Peter W. Gaudet

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Peter W. Gaudet** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20 _____. _____

(SEAL)

Notary Public

(print name)

My Commission expires ____ / ____ / ____

Legal Representative of Inventor Donald A. Olsen (deceased)

Signature: _____ **Carol Olsen**

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Carol Olsen** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20 _____.

(SEAL) _____ Notary Public

(print name)

My Commission expires _____ / _____ / _____

Inventor's Signature: _____ **Michael J. Eacobacci**

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Michael J. Eacobacci** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20 _____.

(SEAL) _____ Notary Public

(print name)

My Commission expires _____ / _____ / _____

Legal Representative of Inventor John T. Harvell (deceased)

Signature:

Olive Harvell

Olive Harvell

State/Commonwealth

of Massachusetts

County of Middlesex

Then personally appeared before me the above-named **Olive Harvell** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 8th day of April, 2004.

(SEAL)

Jennifer A. Tardiff Notary Public
Jennifer A. Tardiff (print name)

My Commission expires 1/24/08

